ESP32-S3_Arduino Debug documentation

Arduino Environment configuration

1.Open the Arduino and click on the upper left corner to open the file-> preferences, as shown in Figure 1.

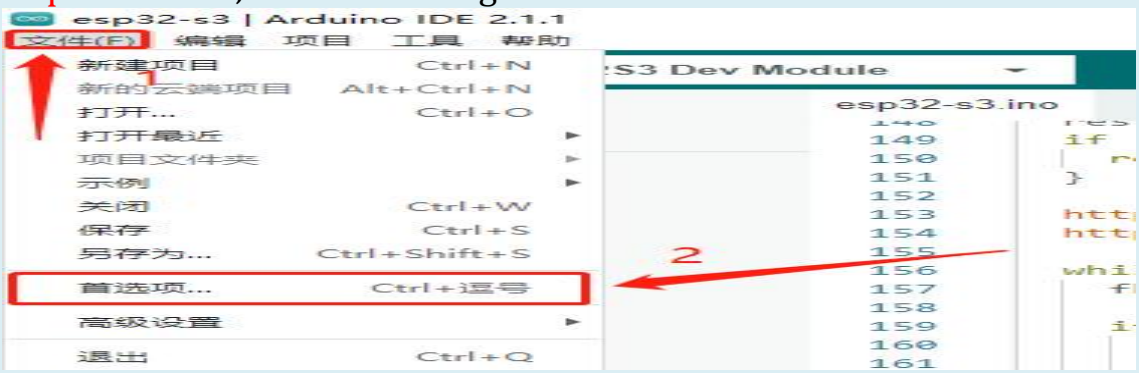


Figure 1

2.In the preferences, set the developer Manager address, open the position pointed by the arrow in Figure 2, copy the developer address below, then paste it into the box circled in Figure 2, and finally click confirm.

https://github.com/espressif/arduino-esp32/releases/download/2.0.9/package_esp32_index.json

Figure 2

3.Open Development Manager-> Find esp32-> Install esp32 by Espressif Systems Library version 2.0.9, as shown in Figure 3.

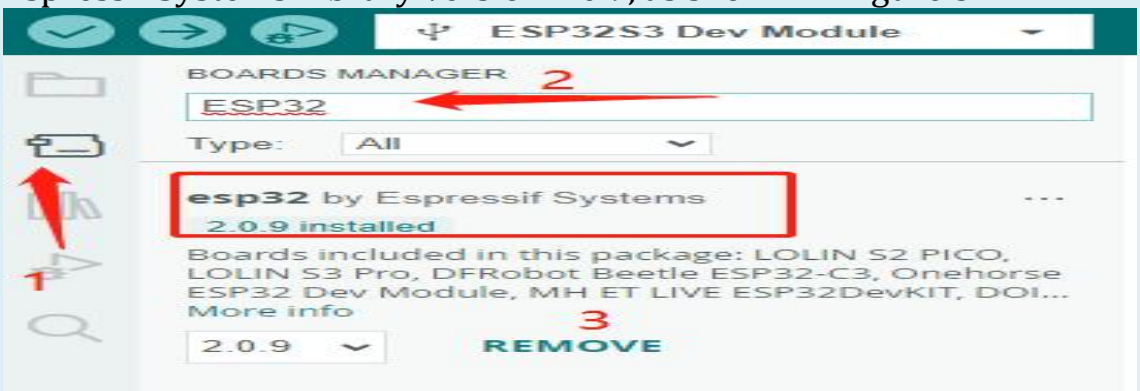


Figure 3

ESP32-S3 parameter configuration

4.According to the file path ESP32-S3-MINI\Arduino_IDE\ESP32_CAM_S3, open ESP32_CAM_S3.ino, as shown in Figure 4

Figure 4

5.Set it up according to the illustrated configuration

①According to Figure 5, click tool-> Development-> esp32-> ESP32S3 Dev Modele

Figure 5

②According to Figure 6, click the tool-> port-> COMX in turn (the port does not need to be consistent with the picture. If the port is not found, please go to Baidu to install the CH340 serial port drive)

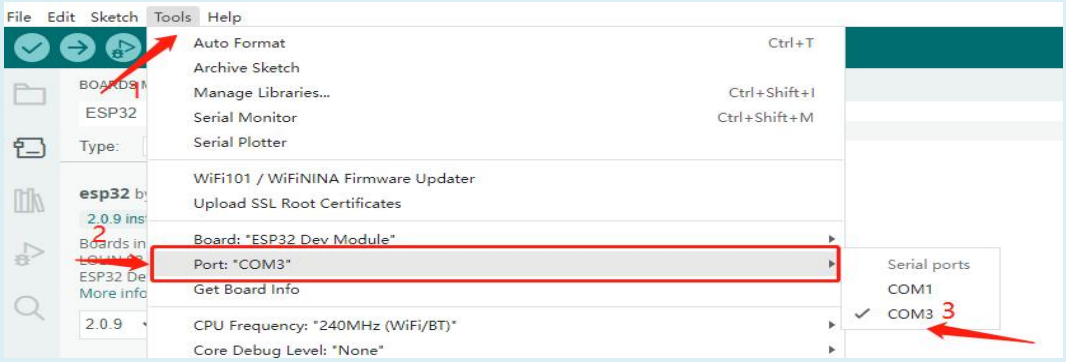
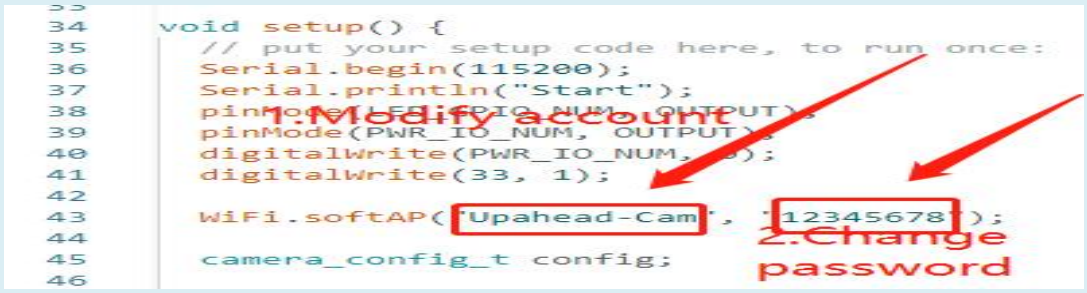


Figure 6

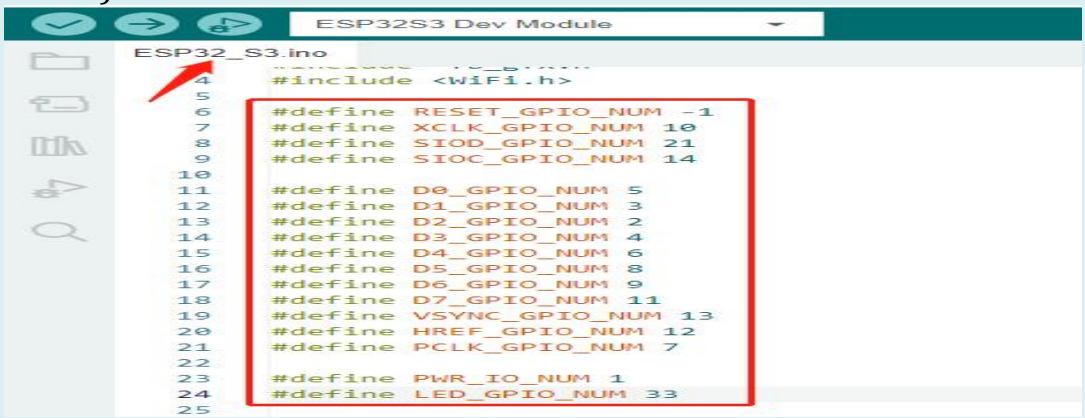
③According to the configuration sequence of Figure 7, set the development version parameters in turn.

Figure 7

7.Change the ssid and password to the name and password of the router wifi or the name and password of the phone hotspot.



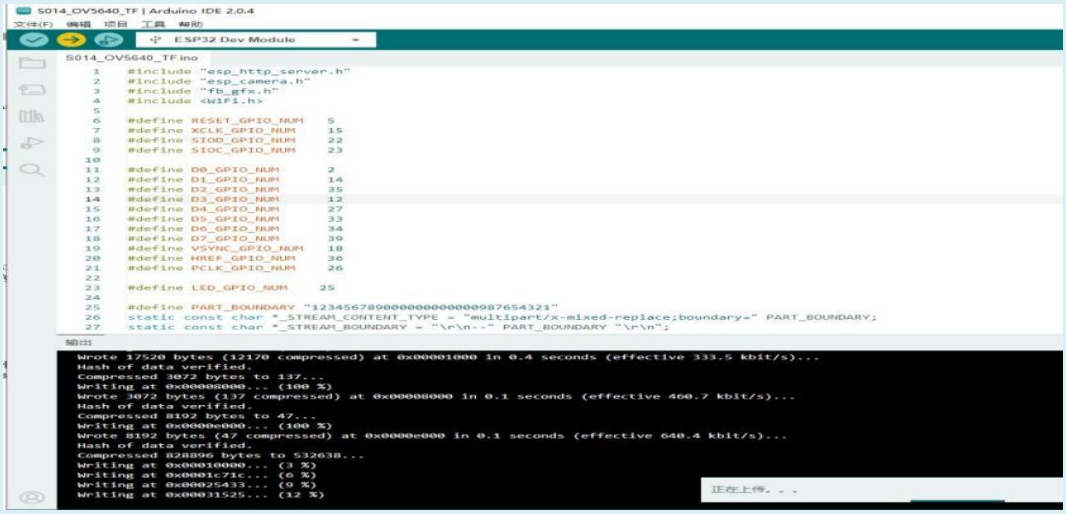
8.Modify the camera IO configuration according to Figure 8 and refer to the schematic camera IO (the schematic diagram has been placed in the folder)

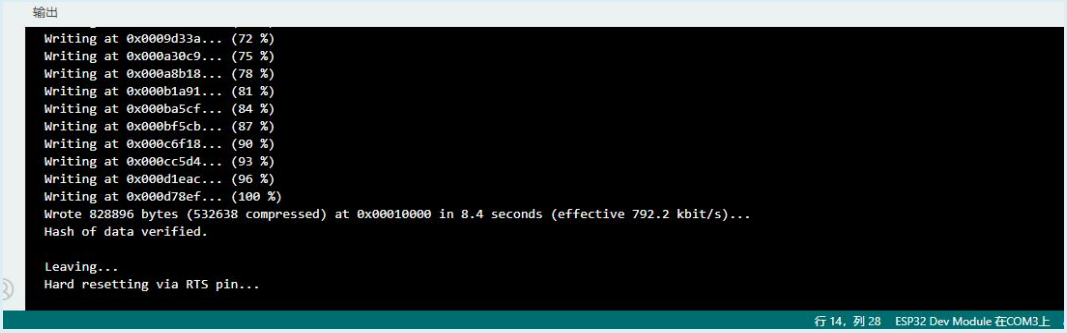


Program burning

9.Program burning record, as shown in the figure below

①Click the right arrow  in the upper left corner and record it into the ESP32-S3 module.





11.Mobile phone connection steps

Open the phone, search for and connect to the ESP32-S3 hotspot WiFi

Use your mobile phone to monitor or download the Google browser, and enter the website 192.168.4.1 to view the real-time monitoring of ESP32-S3.

On October 22,2023